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Response dated September 7, 2006
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## Amendment to the Claims

This Listing of Claims replaces all previous claim sets and Listing of Claims.

## Listing of Claims

- 1-50. Canceled.
- 51. (Currently Amended) A-method for enhancing the efficacy of cross species nuclear transfer involving a mammalian differentiated donor cell and a recipient animal cocyte from another species with respect to the donor cell Amethod of producing embryonic or stem-like cells comprising the following steps:
- mammalian donor cell or cell nucleus into an enucleated animal occyte, wherein such occyte is derived from a different animal species than the human or mammalian cell under conditions suitable for the formation of a nuclear transfer (NT) unit, and wherein comprising the step of incorporating mitochondria or mitonchondrial DNA derived from cell or cells of said donor cell's species is incorporated into said occyte;
  - (ii) activating the resultant nuclear transfer unit;
- (iii) culturing said activated nuclear transfer unit until greater than the 2-cell developmental stage; and
- (iv) culturing cells obtained from said cultured NT units to obtain embryonic or stem-like cells.

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- 52. (Previously presented) The method according to claim 51, wherein said mitochondria or mitochondrial DNA is derived from the cells of the donor.
- 53. (Previously presented) The method according to claim 51, wherein said donor cell is a human donor cell.